

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: \_\_\_\_\_

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

10/587,995  
IFWP  
08/8/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/efc/efs/downloads/documents.htm>**> , **EFS Submission User Manual - ePAVE**)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWP

## RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,995

TIME: 09:17:15

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08082006\J587995.raw

3 <110> APPLICANT: Susan Marie Metcalfe  
W--> 4 <120> TITLE OF INVENTION: Method of Inducing or Modulating Immune Response  
C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/587,995  
C--> 5 <141> CURRENT FILING DATE: 2006-07-31  
W--> 0 <130> FILE REFERENCE:  
W--> 5 <160> NUMBER OF SEQ ID: 4

## ERRORED SEQUENCES

Does Not Comply  
Corrected Diskette Needed

Cpg -1, 2, 3)

W--> 6 <210> SEQ ID NO: 1  
7 <211> LENGTH: 2728  
E--> 8 <212> TYPE: mRNA  
9 <213> ORGANISM: Homo Sapiens  
W--> 10 <400> SEQUENCE: 1

11	gggtggctggctctgcgcgcgg	atccggggaga	ggggcgggcg	ccattgtgct	tcgctgccga	60
12	ctgcatttcc	tcagtcacgg	gcctagaact	ccaaggagaa	aggcggcgaa	120
13	gaatggagtc	taaaccttca	aggattccaa	gaagaatttc	tggtcaacct	180
14	taagtgtctag	gatgatgtct	ggaagcagag	gaagtagttt	aaatgatacc	240
15	gagactcttc	atctagattg	gattctgaat	atcagctctac	atcagcatca	300
16	caccatttca	atctgcatgg	tatagtgaat	ctgagataac	tcagggagca	360
17	cgcagaacca	gcaacgggat	catgattcaa	aaagacctaa	actttctctgt	420
18	ctacctcagc	tgggagaaat	gttggaaatg	gtttaaacac	attatcagat	480
19	ggcatagtca	agttcctaga	tcttcatcaa	tggtacttgg	atcatttggga	540
20	tgagagagag	gagagatttg	gagagaagaa	cagattcctc	tattagtaat	600
21	atagtcaccg	aagtgggtgat	ttcacaaact	catcatatgt	tcaagacaga	660
22	attcacaagg	agcaagacca	aaagaaaact	caatgagcac	tttacagttg	720
23	ccacaaacca	ccaattgcct	tctgaacatc	agaccatact	aagttctagg	780
24	attctttaag	atcaaatttt	tcttcaagag	aatcagaatc	ttcccgaagc	840
25	ctggattttc	ttacagttca	agtagagatg	aagccccaat	cataagcaat	900
26	ttgttttcac	tcaaagacca	tttcaagaat	cttctgacaa	tgaaggtagg	960
27	ggagattgct	gtcacgcata	gcttctagca	tgtcatctac	ttttttttca	1020
28	gtcaggattc	cttgaataca	agatcattga	attctgaaaa	ttcttacggt	1080
29	tcttgacagc	tccacagtc	cgtagtaatg	taccatcagc	ttctgaagtt	1140
30	gggcgtctga	agcttctcag	ggatttcgat	ttcttaggcg	aagatggggg	1200
31	ttagccacaa	tcatagctct	gagtcagatt	cagaaaattt	taaccaagaa	1260
32	gaaatacagg	accatggtta	tcttcctcac	ttagaaatag	atgcacacct	1320
33	gaaggaggcg	agagggaaga	gatgaatctt	caaggatacc	tacctctgat	1380
34	gatctcatat	ttttagaaga	gaatcaaattg	aagtggttca	ccttgaagca	1440
35	ctcttgagc	tgctgccaac	agaccacaag	catctgcagc	atcaagcagt	1500
36	gtggctctac	atcagattcg	gctcaagggtg	gaagaaatac	aggaatatca	1560
37	ctggttcctt	attccgggtt	gcagtcctcc	cagcacttgg	gagtaatttg	1620
38	tcatgatcac	agtagatatt	attccttcag	gttggaattc	agctgatggt	1680

NO  
-1, 2, 3  
are  
allowed  
in  
RNA  
Sequence

## RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,995

TIME: 09:17:15

Input Set : A:\PTO.RJ.txt

Output Set : N:\CRF4\08082006\J587995.raw

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39 aaactaaaag tgcgccttca agagatccag aaagattgca gaaaataaaa gagagcctcc 1740
40 ttttagagga ctccagaaga gaagaagggtg acttatgtag aatttgtcaa atggcagctg 1800
41 catcatcatc taatttgctg atagagccat gcaagtgcac aggaagtttg cagtatgtcc 1860
42 accaagactg tatgaaaaag tggttacagg ccaaaattaa ctctggttct tcattagaag 1920
43 ctgtaaccac ctgtgaacta tgtaaagaga agttggagct taacctggag gattttgata 1980
44 ttcatgaact acatagagct catgcaaatg aacaagctga gtatgagttt atcagctctg 2040
45 gtctctacct agtgggtgta ttgcacttgt gcgaacaaag cttttctgat atgatgggaa 2100
46 atacaaatga accaagcaca cgtgtccgat ttattaacct tgcaagaact cttcaggcac 2160
47 atatggaaga tctcgaaact tcagaggatg attccgaaga agacggagac cataacagga 2220
48 catttgatat tgcctaactt catataagac agatggatga tctgtgaaca taagtgttta 2280
49 ttaaaaatgg caattaaata taaattactt ttgtggggga atgcctaata aatacattga 2340
50 ctatatataa aatgaatata tacatacaca tgtatgcctg tatatatata ttcattctcc 2400
51 agtggttgctg aattaaaatt ctgctggact ttttaacata gcaaatccga tgtttataaa 2460
52 ctggtaatca aaaagggtttt ttcttttagg tgagtgggaa agtattaccc ttgttttaaa 2520
53 tatctaagca atgcctatca accctttttt gtgttatgat tactgtagtc atatttatga 2580
54 aaaaagggtt gtgttttact cttgctagtg agaaaagtgg gacaaaatat acttttgaaa 2640
55 taaaatgcta tatggcacct aattattttt tcttttaaaa tgccttaagt tgcagtctca 2700
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58 <210> SEQ ID NO: 2
59 <211> LENGTH: 2720
E--> 60 <212> TYPE: mRNA
61 <213> ORGANISM: Mus musculus
W--> 62 <400> SEQUENCE: 2
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64 gagccgagcc gagcccagcg aggaaggcgg cggcggtgtg gctgcggcga gcgcgacact 120
65 ccctgcagcg gagtgcctcg tggagagggt aaaccttaag aatggagtct aaaccttcca 180
66 ggattccaag aagaatttct gttcaacctt ctggctcttt aagcactagg atggtgtctg 240
67 gaaacagagg aaccagttta aatgattcat atcattctag agactcctcc tttagactgg 300
68 attctgaata tcagtctgca tcagcatcag cgtgtgcac accatgtcag cctgcctggg 360
69 acagtgagtc tgagatacct cagggagcgc gggcacgagc acagaccag cagcgggagc 420
70 atgactcaaa gagacccaag ctttcctgta caaactgtgc atctacctca gctgggagga 480
71 acggtgggag tgggttaaat acagtgtcag attcttcttg gaggcatagt caagttccca 540
72 gatcttcatc aatggtactt gggtcatttg gaacagactt gatgagagaa aggagagatt 600
73 tggacaggag aagagagtc tccatcagca atcttatgga ttataatcac cgaagtgggt 660
74 atttcacaac ttcattcatat gttcaagaaa gagttccttc ttcatttca cagggagcaa 720
75 gacaaaaga gaatgcagtg agcactttac agttgaattc atcatccacc aatcaccaat 780
76 tgccttctga ccattcagaca gtaccaagtt ctagggactc cagtagaagt tctttcagat 840
77 cacatttttc tccaagacaa tcagaatctt ttgcgaacag ttcacatcct gcattttcat 900
78 atttttcaag tagaaatgaa actccaacta taagcaattc agaaaggggt tcatctcaga 960
79 gaccatatcg agaattctct gacaatgaag gtaggcgtag aactaggaga ttgctgtcac 1020
80 ggatagcttc tagcatgtca tctacttttt tctcacgaag atctagtcaa gattccttga 1080
81 atacaagatc tttgagttct gaaaattata tttctccgag aacctgact tcacagtctc 1140
82 ggaataatgg aacctcctcg tctctgacg tcagtggagg cagggcagct gaagcatctc 1200
83 agggatttag atttcttagg cgaagatggg ggttgtctgc gctcagccaa aatcatagct 1260
84 ctgaaccaga ggcagaaaat ttttaaccaag aatcagaagg tagaaattca ggaccatggg 1320
85 tgtcttcttc acttagaaat agatgcacac ctttgttctc gagaaggagg cgagagggaa 1380
86 gggatgagtc ttcaagaatg tctacgtcag atgtaccacc tagatctcat attttcagaa 1440
87 gagattcaaa tgaagtagtt catcttgaag cacagggtga ctcccttggg gctgctgcca 1500
88 accgaccaca agcatctgga gcgtcaagca gtgctgctgc aggtggctcc accccagagt 1560

```

Same Error

## RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,995

TIME: 09:17:16

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08082006\J587995.raw

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89 tgcctcaggg tggagaagaat ccaggactaa cagggattct tectggctcc ttgttccggg 1620
90 ttgcagtccc accagcactc ggcagtaatc tggctgacaa tgtcatgatt actgtagata 1680
91 ttatcccttc tgggttggaa tcaactgatg ggaaaaatga taaagctaaa agtgcacctt 1740
92 caagagaccc agaaaaactt cagaaaatca aagaaagcct ctttttagag gactctgatg 1800
93 atgaagaaga aggggactta tgtagaattt gtcagatggc agcagcgtca tcatctaatt 1860
94 tattgataga gccgtgcaaa tgcacaggga gcttgacagta cgtccatcaa gagtgtatga 1920
95 aaaagtgggtt acaagccaaa attaattctg gctcttcatt agaggctgtg actacctgtg 1980
96 aactctgtaa agagaagttg caacttaacc tggaggattt tgatattcat gaactacata 2040
97 gagctcatgc aaatgaacaa gctgagtatg agtttatcag ctctgggtctc tacctagtgt 2100
98 tcttactgca cttgtgtgaa caaagctttt ctgatatgat gggaaatata attgaaccaa 2160
99 gcactcgtgt ccgatttatt aaccttgcaa gaactcttca ggcacatatg gaagatctcg 2220
100 aaacttcaga ggatgaattc tgaagaagat ggagaccata agagaatgct tgatattgcc 2280
101 taacttcatt taagaaaaaa aaaaaaagg atgatctgtg aacatgttta taaaactgg 2340
102 caattaagta tggataattt catggggtaa tgcctagtag attaattgac tatacataaa 2400
103 atgaatatat atatatacat gtataaatgt aaatatatat tcattctcaa gtattgctga 2460
104 actgaaattc ttgagctgga ccctttaaca ctggccagcg aatctcatgt ttataatatg 2520
105 taatccaagc atttttcctt ttggtgagtg ggaaagcatt acccttggtt gaaatatcta 2580
106 aacagtgtct atcaactttc ttctttgttg caattactgt agtcatattt atgggaaaaa 2640
107 aatgtttgtg tattagtctc ttgctagtga aaaaaagtca gataaaatgt ctttttgaaa 2700
108 taaaatgcca atggcaccta 2720

```

110 &lt;210&gt; SEQ ID NO: 3

111 &lt;211&gt; LENGTH: 704

E--> 112 <212> TYPE: Polypeptide

113 &lt;213&gt; ORGANISM: Homo Sapiens

W--&gt; 114 &lt;400&gt; SEQUENCE: 3

```

116 1 meskpsripr risvqpsssl sarmmsgsrq sslndtyhsr dssfrldsey qstsasasas
117 61 pfqsawyses eitqgarsrs qnqqrhdsk rpklsctnct tsagrnvgng lntldsswr
118 121 hsqvprsssm vlgsfgtdlm rerrdlerrt dssisnlmdy shrsqdfstt syvqdrvpsy
119 181 sqgarpkens mstlqlntss tnhqlpsehq tilssrdsrn slrsnfssre sessrsntqp
120 241 gfsysssrd eapiisnserv vssqrpfqes sdnegrrtr rllsriassm sstffsrrss
121 301 qdslntsrln sensyvspri ltaqsrsnv psasevpdnr aseasqgfrf lrrrwglssl
122 361 shnhssesds enfnqesegr ntgpwlsssl rnrctplfsr rrrregrdess riptsdtssr
123 421 shifresne vvhleaqndp lgaaanrpqa saasssattg gstsdsaggg rntgisgilp
124 481 gslfrfavpp algsnltdnv mitvdiipsg wnsadgksdk tksapsrdpe rlqkikesll
125 541 ledseeegd lcricqmaaa sssnlliepc kctgslqyv qdcmkkwqla kingsslea
126 601 vttcelckek lelnledfdi helhrahane qaeyefissg lylvllhlc eqsfdsdmmgn
127 661 tneptstrvrf inlartlqah medletsedd seedgdhnr fdia

```

129 &lt;210&gt; SEQ ID NO: 4

130 &lt;211&gt; LENGTH: 693

E--> 131 <212> TYPE: Polypeptide

132 &lt;213&gt; ORGANISM: Mus musculus

W--&gt; 133 &lt;400&gt; SEQUENCE: 4

```

134 1 meskpsripr risvqpsssl strmvsgnrg tslndsyhsr dssfrldsey qsasasacas
135 61 pcqpawyses eipqgarara qtqqrhdsk rpklsctnca stsagrnngs glntvsdssw
136 121 rhsqvrsssm mvlgsfgtdl merrdlerrt ressisnlmd ynhrsgdftt ssyvqervps
137 181 sysqgarpe navstlqlns sstnhqlpsd hqtvpsrds srssfrshfs prqsesfrns
138 241 shpafsyfss rnetptisns ergssqrpyr essdnegrrt trllsrias smsstffsrr
139 301 ssqdslntrs lssenyispr tltsqsrnng tsssdvseg raaeasqgfr flrrrwglss
140 361 lsqnhsspe aenfnqeseg rnsqpwllss lnrctplfs rrrregrdes srmstdvpp

```

Type can be either RNA or DNA or PRT.

7 Same Error

## RAW SEQUENCE LISTING

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,995

TIME: 09:17:16

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08082006\J587995.raw

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141 421 rshifrrdsn evvhleaaggd slgaaanrpq asgasssaaa ggstpelpqg grnpgltgil
142 481 pgs1frfavp palgsnlnadn vmitvdiips gwnstdgknd kaksapsrdp eklqkikesl
143 541 lledsddeee gdlcricqma aasssnllie pckctgslqy vhgecmkkwl qakinsgssl
144 601 eavttcelck eklqlnledf dihelhrraha neqaeyefis sglylvvllh lceqsfsdmm
145 661 gntiepstrv rfinlartlq ahmedletse def
150 1
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## VERIFICATION SUMMARY

DATE: 08/08/2006

PATENT APPLICATION: US/10/587,995

TIME: 09:17:17

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\08082006\J587995.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:5 M:270 C: Current Application Number differs, Replaced Current Application No  
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:0 M:201 W: Mandatory field data missing, <130> FILE REFERENCE  
L:5 M:283 W: Missing Blank Line separator, <160> field identifier  
L:6 M:283 W: Missing Blank Line separator, <210> field identifier  
L:8 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:1  
L:10 M:283 W: Missing Blank Line separator, <400> field identifier  
L:60 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:2  
L:62 M:283 W: Missing Blank Line separator, <400> field identifier  
L:112 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:3  
L:114 M:283 W: Missing Blank Line separator, <400> field identifier  
L:131 M:310 E: (3) Wrong or Missing Sequence Type, numeric identifier <212>, for SEQ ID#:4  
L:133 M:283 W: Missing Blank Line separator, <400> field identifier